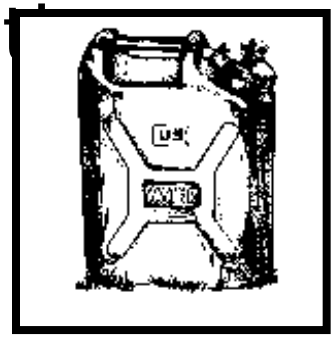
POTABLE WATER

- ➔ Obtain water from approved source or fill point
- ➔ Chlorinate to 1 ppm
- ➔ Protect from contamination



Platoon suffers from bloody diarrhea after drinking water from 5-gallon cans filled from hose stored on latrine floor.

Inspect Water Trailer

- **Every 6 months in garrison** *(when in use)*
- **Before deployment or field exercise**
- **Quarterly**
  - manhole cover
  - drain plug
  - interior
  - spigots

- Before Filling:
  - interior
  - hose at fill point
- After Filling:
  - manhole cover

PM DETACTMENT

MEDDAC

Storing Water Trailers

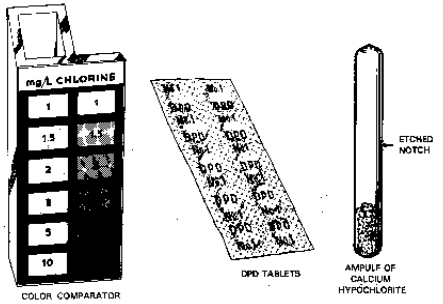
Residual water in tank promotes foul odors, bacterial growth, and rust during storage.

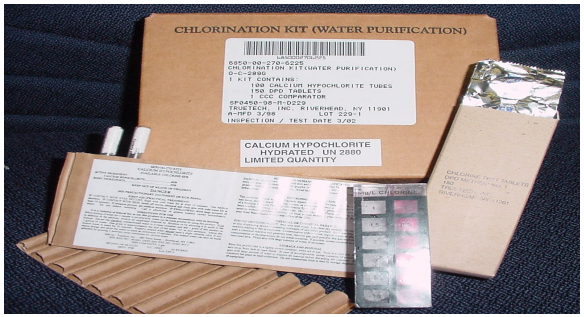
- Remove drain plug
- Open spigots
- Prop manhole cover open (1/2 to 1 inch)

Ventilation allows air circulation and drying.

Monitoring Chlorine Residual

- Chlorination Test Kit
  - ✓ Step comparator
  - ✓ DPD #1 tablets
  - ✓ Ampoules of calcium hypochlorite
- Heat Dissipates Chlorine
- Conduct periodic checks to ensure a 1-ppm Minimum Residual





Chlorinated water is your first barrier against contamination.

Steps to Chlorinate Water

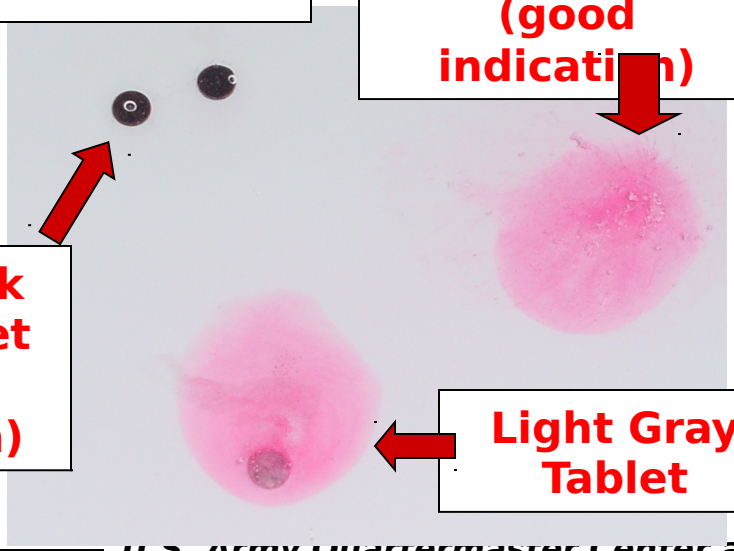
- Follow Table A-1, FM 21-10 *(only add 1/3 of concentration listed in Table A-1 to achieve 1-ppm; Table A-1 amounts will raise residual to 5-ppm)*
- Add contents of ampoules, bulk calcium hypochlorite (HTH), or bleach to water
- Stir & Wait 10 minutes
- Check Chlorine Residual
  - ✓ **If > 1-ppm – Wait 20 more minutes before releasing for consumption**
  - ✓ **If < 1-ppm – add more chlorine solution t water and follow steps 3-5 until 1-ppm is reached.**

5-ppm residual indicated by color match on right.

DPD Tablet Reliability

- **White DPD #1 tablets will flash pink when chlorine is present in water.**
- **Light gray tablets will also provide a reasonably accurate reading.**
- **Dark gray or black tablets are aged beyond usability and yield no indication of residual.**

Contact your supplier if the majority of the tablets in your chlorination kit are gray or black.



Ordering DPD#1 Tablets

- **Reference: TB MED 577, Sanitary Control and Surveillance of Field Water Supplies, 1 May 1999.**

- **Appendix F, p. F-3**
  - NSN 6810-01-044-0315
  - Chlorine Test Tablet, DPD Method
  - Provides 1 box of 100 foil-wrapped DPD No. 1 tablets.

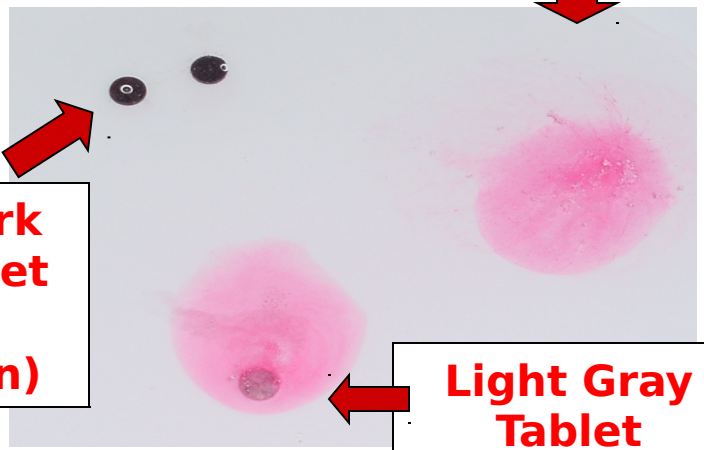
Ordering DPD#1 Tablets

- **Reference: TB MED 577, Sanitary Control and Surveillance of Field Water Supplies, 1 May 1999.**
- **Appendix F, p. F-3**
  - NSN 6810-01-044-0315
  - Chlorine Test Tablet, DPD Method
  - Provides 1 box of 100 foil-wrapped DPD No. 1 tablets.

DPD Tablet Reliability

- **White DPD #1 tablets will flash pink when chlorine is present in water.**
- **Light gray tablets will also provide a reasonably accurate reading.**
- **Dark gray or black tablets are aged beyond usability and yield no indication of residual.**

White Tablet (good indication)



Black/Dark Gray Tablet (no indication)

Light Gray Tablet

Contact your supplier if the majority of the tablets in your chlorination kit are gray or black.

Examine DPD #1 Tablets

- **Tablets should be white.**
- **Graying of tablet is indicator of aging/ deterioration.**
- **Light gray tablets may give poor residual reading.**
- **Dark gray/black tablets are ineffective.**

Do NOT use dark gray or black DPD tablets to check chlorine residual!

Examine DPD #1 Tablets

Do NOT use dark gray or black DPD tablets to check chlorine residual!

- Tablets should be white.
- Gray tablets indicator of aging/ deterioration.
- Light gray tablets may give poor residual reading.
- **Dark gray/black tablets are ineffective.**

Questions

- **Inspecting Water Trailer**
- **Chlorination Test Kits & DPD Tablets**
- **Chlorinating Potable Water**
- **Actions for Storing Water Trailers**

POC: CPT Jackie Durant

Environmental Science Officer; ACES

DSN 687; COM (804) 734-4287

Jaqueline.durant@lee.army.mil